

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_4 ~ C1216XT-50LXXK-MDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_4\_M-50L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 4/5/2018

[LUMCAT] C1216XT-50L-xxK-MD-EX-TCY-SO

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Medium Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 25.2 Degree Beam Angle

[OTHER] Aimed at 0 Degrees (Nadir)

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_4 ~ C1216XT-50LXXK-MDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	43481	46073	45773
55	16451	17173	16992
65	11519	11410	11685
75	11388	11737	12790
85	9177	8162	10049

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531
5	10458.240	10585.652	10416.051	110571.998	10496.676	10437.993	10560.539	10426.830	10590.335	10480.019
10	7373.580	7565.221	7349.780	7564.034	7425.183	7332.173	7488.234	7324.977	7552.054	7389.163
15	4486.834	4639.628	4503.077	4696.543	4553.086	4436.427	4547.636	4456.816	4623.630	4441.857
20	2747.178	2823.486	2777.899	2920.121	2806.665	2689.948	2742.622	2734.073	2816.627	2653.806
25	1965.561	2001.662	1997.061	2074.813	2005.953	1924.480	1939.621	1952.034	1975.974	1877.485
30	1583.750	1630.256	1623.511	1680.736	1634.420	1592.243	1604.774	1584.820	1585.430	1525.583
35	1221.943	1269.432	1255.283	1319.134	1281.811	1254.339	1268.092	1229.708	1232.101	1172.758
40	798.208	840.683	825.695	866.210	839.104	826.630	839.230	794.821	805.953	771.201
45	438.691	478.222	464.841	475.925	461.816	467.732	470.896	435.852	451.082	440.790
50	228.561	255.581	248.355	252.862	243.034	252.187	250.552	236.787	246.186	236.741
55	134.632	142.650	140.543	146.186	139.063	146.244	143.987	147.253	153.129	141.273
60	91.398	91.340	92.250	97.136	91.803	99.580	103.686	106.138	110.929	101.805
65	69.457	70.843	68.804	73.806	70.462	82.483	82.915	87.541	88.849	85.322
70	55.529	57.068	53.089	59.764	57.138	73.321	76.327	78.692	75.460	76.625
75	42.053	42.413	43.342	47.853	47.234	62.131	66.723	67.809	68.022	68.190
80	26.137	27.767	26.579	29.943	30.369	50.992	51.802	55.254	57.733	54.339
85	11.412	11.687	10.150	11.136	12.497	33.795	34.674	40.038	36.957	37.941
90	3.101	2.409	3.397	2.886	3.072	20.049	16.285	21.884	17.847	20.851
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531	11882.531
5	10664.168	10495.916	10583.212	10600.702	10481.198	10610.527	10458.240
10	7633.260	7402.060	7498.588	7518.137	7344.819	7558.750	7373.580
15	4611.909	4455.436	4520.492	4500.872	4382.268	4597.504	4486.834
20	2727.844	2675.867	2704.348	2659.769	2609.389	2780.943	2747.178
25	1902.997	1897.544	1906.886	1880.603	1864.086	1961.094	1965.561
30	1544.779	1530.756	1541.832	1538.404	1525.165	1581.868	1583.750
35	1196.529	1173.651	1181.540	1181.280	1169.719	1224.603	1221.943
40	795.729	760.837	771.639	776.632	767.472	802.586	798.208
45	450.308	420.632	425.935	441.297	435.517	435.805	438.691

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<b>50</b>	239.298	223.470	224.322	228.527	227.759	228.592	228.561
<b>55</b>	142.110	134.500	135.677	125.937	127.044	133.372	134.632
<b>60</b>	100.788	99.850	94.349	84.622	85.169	83.642	91.398
<b>65</b>	82.663	81.796	81.580	64.403	66.713	70.186	69.457
<b>70</b>	73.603	70.474	72.931	52.269	54.099	57.238	55.529
<b>75</b>	63.343	64.291	59.450	38.711	40.221	47.091	42.053
<b>80</b>	55.173	51.240	49.870	24.967	27.922	28.579	26.137
<b>85</b>	37.521	35.444	35.294	9.964	10.219	9.020	11.412
<b>90</b>	17.492	20.252	17.917	3.071	2.721	2.415	3.101
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2221.51	N.A.	48.50
0-30	3159.51	N.A.	68.90
0-40	3912.17	N.A.	85.30
0-60	4420.41	N.A.	96.40
0-80	4554.95	N.A.	99.30
0-90	4581.85	N.A.	99.90
10-90	3670.51	N.A.	80.10
20-40	1690.66	N.A.	36.90
20-50	2062.16	N.A.	45.00
40-70	586.16	N.A.	12.80
60-80	134.54	N.A.	2.90
70-80	56.62	N.A.	1.20
80-90	26.90	N.A.	0.60
90-110	3.01	N.A.	0.10
90-120	3.01	N.A.	0.10
90-130	3.01	N.A.	0.10
90-150	3.01	N.A.	0.10
90-180	3.01	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4584.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	911.35
10-20	1310.17
20-30	938.00
30-40	752.66
40-50	371.50
50-60	136.74
60-70	77.92
70-80	56.62
80-90	26.90
90-100	3.01
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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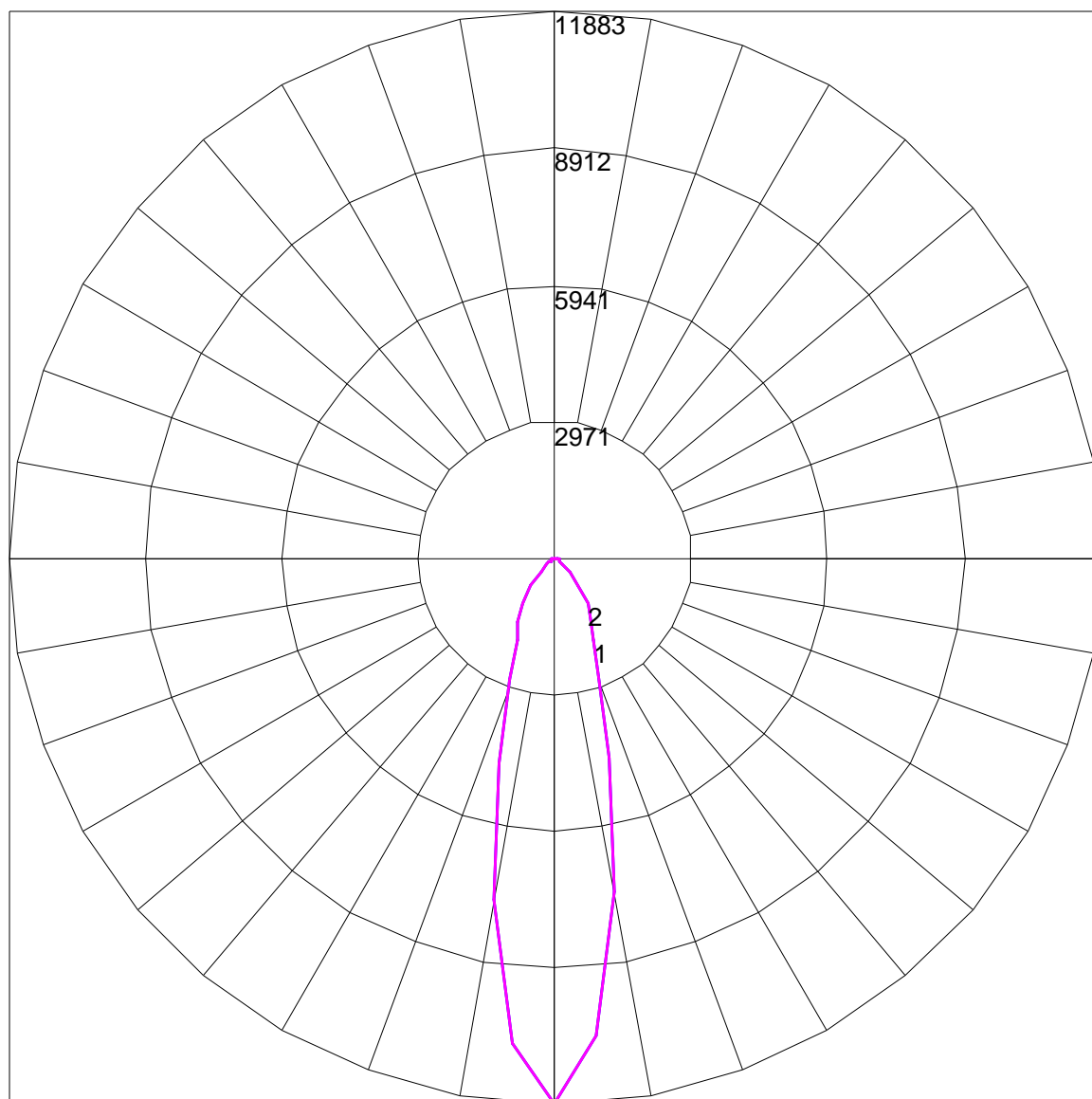
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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POLAR GRAPH



Maximum Candela = 11882.531 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)